

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P966278

Luminaire Tested: **NVN-SB4B-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4B-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15775.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

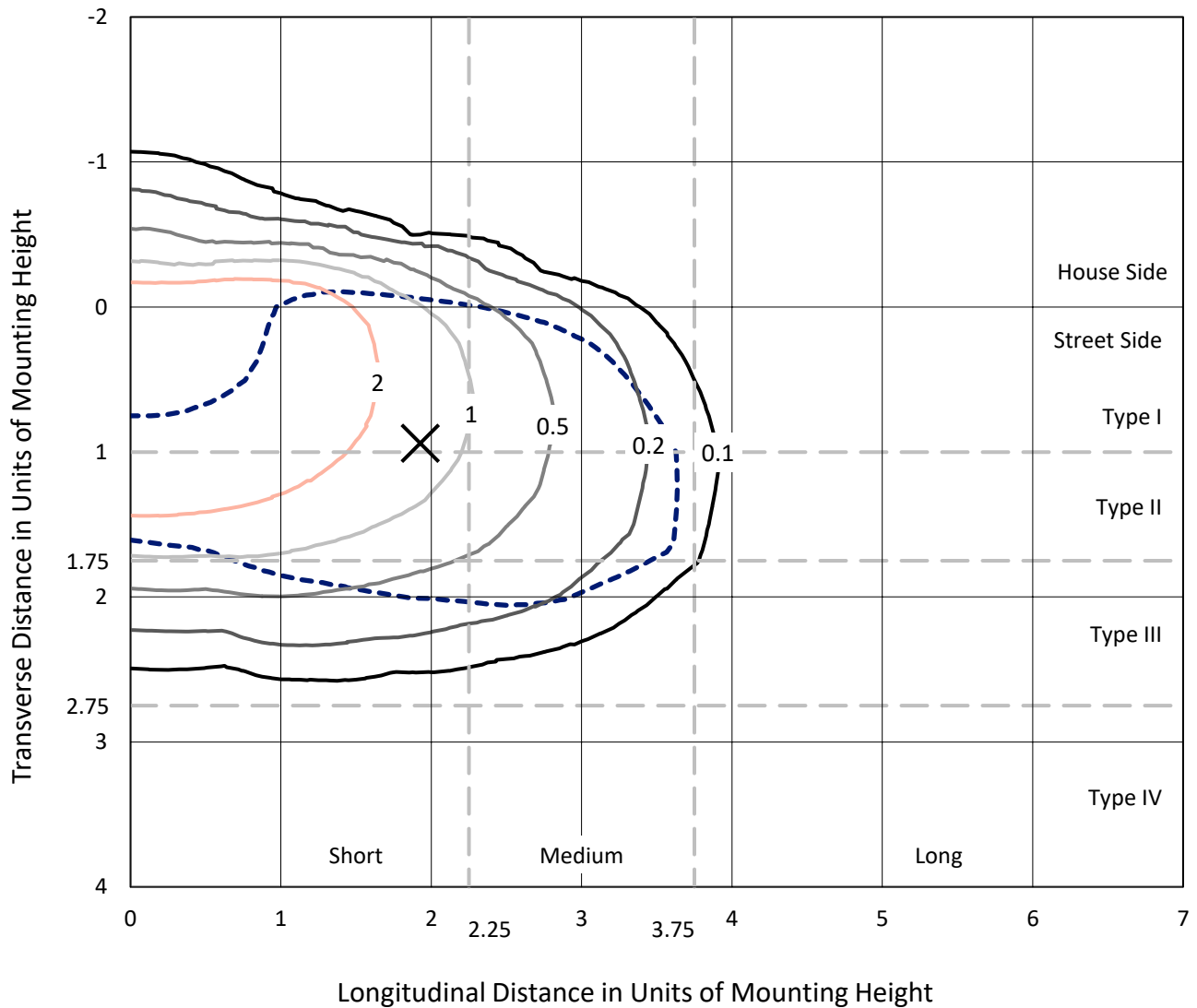
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

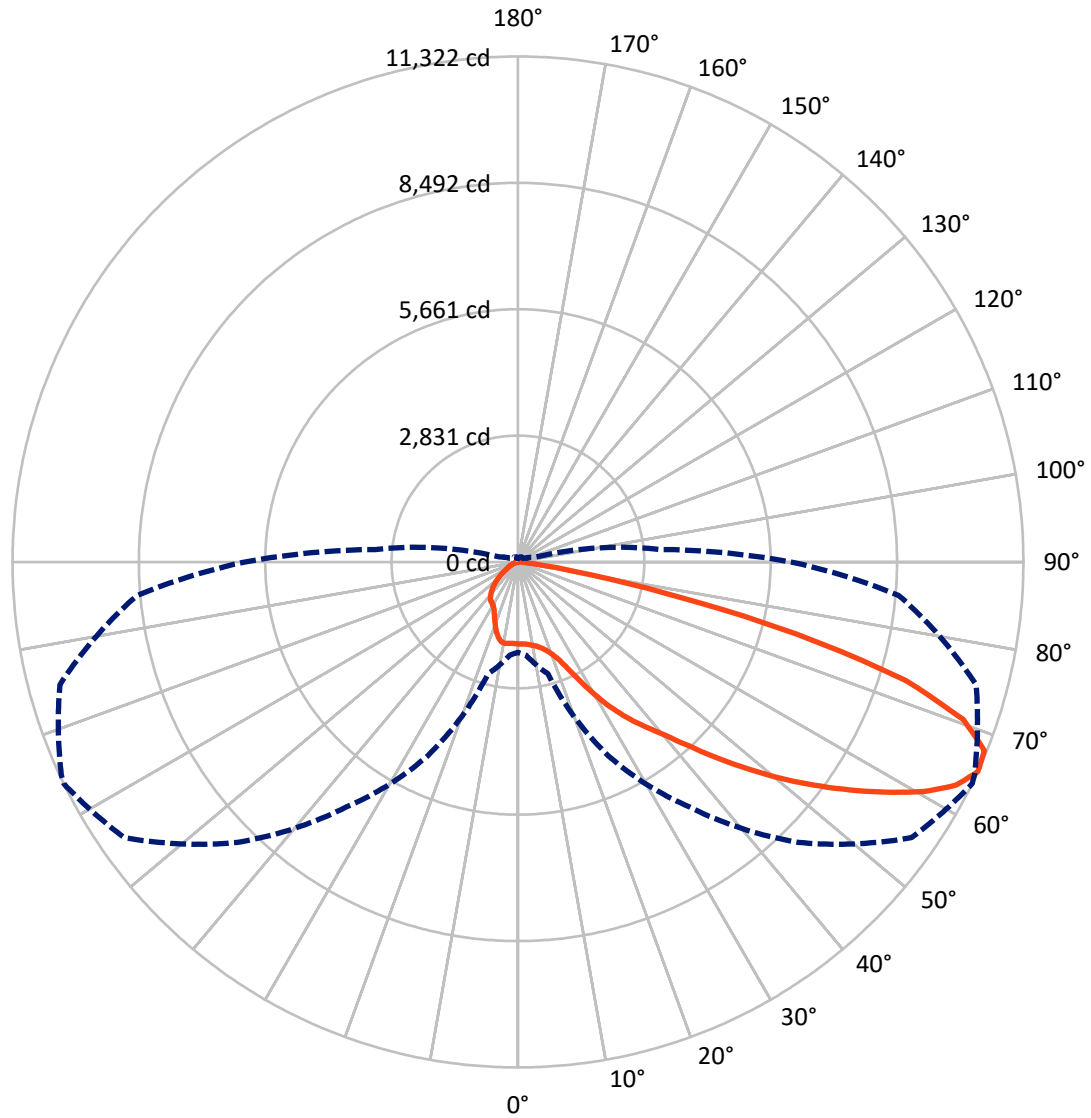
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.7	0.0	2109.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13666.1	0.0	13666.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	15775.8	0.0	15775.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	1.1
10°-20°	459.2	2.9
20°-30°	870.1	5.5
30°-40°	1760.6	11.2
40°-50°	2999.2	19.0
50°-60°	4078.6	25.9
60°-70°	3830.1	24.3
70°-80°	1534.5	9.7
80°-90°	74.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15775.8	100.0
0°-180°	15775.8	100.0

Coefficient of Utilization



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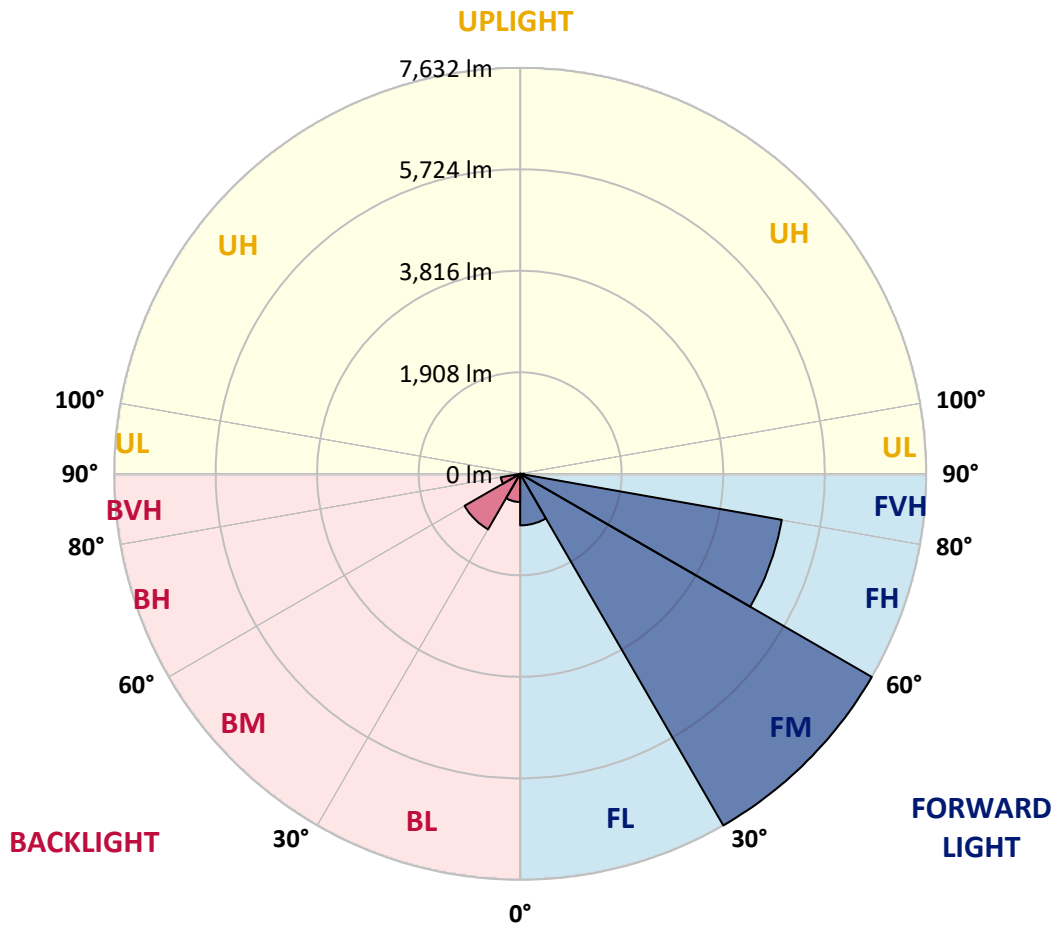
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.8	6.1			
FM (30°-60°)	7632.3	48.4			
FH (60°-80°)	4994.3	31.7			G2/5000
FVH (80°-90°)	70.7	0.4			G1/100
BL (0°-30°)	529.7	3.4	B2/1000		
BM (30°-60°)	1206.1	7.6	B2/2500		
BH (60°-80°)	370.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9
2.5°	1828.5	1841.2	1838.0	1834.9	1833.8	1836.0	1837.0	1836.0	1836.0	1836.0	1837.0
5°	1793.6	1804.2	1804.2	1811.6	1822.2	1834.9	1844.4	1846.5	1848.6	1851.8	1850.7
7.5°	1727.0	1735.4	1741.8	1766.2	1792.6	1826.4	1854.9	1869.8	1871.9	1883.5	1887.7
10°	1681.5	1692.1	1702.7	1728.0	1766.2	1816.9	1865.6	1901.5	1906.8	1934.3	1947.0
12.5°	1679.5	1690.0	1703.8	1731.2	1775.7	1829.6	1888.9	1940.6	1950.2	1990.3	2016.8
15°	1701.6	1714.3	1727.0	1760.8	1808.4	1874.0	1937.5	2002.0	2011.5	2068.7	2097.1
17.5°	1747.1	1764.0	1773.6	1807.4	1858.1	1931.1	2014.6	2088.7	2097.1	2163.8	2199.8
20°	1837.0	1857.1	1860.3	1887.7	1937.5	2015.8	2115.2	2207.1	2217.7	2293.8	2334.0
22.5°	2023.1	2051.6	2026.3	2040.1	2084.4	2162.8	2270.6	2386.9	2401.8	2488.5	2524.5
25°	2350.9	2391.1	2325.6	2302.4	2321.4	2402.8	2538.2	2685.2	2702.1	2771.9	2789.8
27.5°	2995.0	2943.2	2843.8	2746.5	2689.4	2735.9	2888.2	3070.1	3091.3	3158.9	3137.8
30°	3702.6	3657.1	3522.7	3307.1	3171.7	3164.3	3304.9	3508.0	3532.3	3596.8	3532.3
32.5°	4411.1	4367.7	4221.9	3956.4	3721.6	3605.2	3702.6	3927.8	3940.5	3981.7	3886.6
35°	5108.1	5063.6	4917.7	4645.9	4357.2	4092.8	4073.8	4327.5	4331.9	4375.2	4233.5
37.5°	5809.3	5772.2	5616.8	5350.3	5065.8	4700.9	4524.2	4706.2	4711.5	4753.7	4606.8
40°	6309.5	6325.4	6218.5	6012.3	5768.0	5369.3	5029.8	5109.1	5077.4	5148.3	5060.5
42.5°	6738.9	6770.5	6677.5	6573.8	6432.2	6081.0	5655.8	5642.1	5591.4	5629.4	5538.5
45°	7110.0	7136.5	7052.9	7028.6	7025.5	6779.0	6340.1	6257.6	6186.8	6179.4	6070.5
47.5°	7246.4	7297.3	7333.2	7414.6	7573.3	7469.6	7047.7	6919.7	6840.3	6782.2	6609.8
50°	7298.3	7352.2	7474.9	7711.8	8087.2	8131.6	7752.0	7608.2	7510.9	7405.1	7151.3
52.5°	7228.5	7324.8	7489.7	7888.4	8433.1	8662.6	8427.8	8301.9	8190.9	8018.5	7642.0
55°	6817.1	6913.3	7250.7	7886.4	8605.5	9034.9	9066.5	9010.5	8885.7	8613.9	8038.6
57.5°	5949.9	6092.7	6626.7	7617.7	8602.3	9355.3	9692.6	9732.8	9593.2	9204.1	8350.6
60°	4748.5	4942.0	5593.5	7022.3	8336.8	9528.7	10241.5	10442.5	10294.4	9785.7	8603.3
62.5°	3313.4	3537.6	4154.1	6089.5	7729.8	9404.0	10642.4	11013.5	10901.5	10306.1	8700.6
65°	2021.0	2092.9	2590.0	4791.9	6697.6	8881.5	10766.1	11322.4	11285.4	10624.3	8556.8
67.5°	1346.3	1406.6	1549.4	3285.8	5199.0	7837.7	10470.0	11268.4	11279.0	10572.6	8030.2
70°	811.2	862.9	956.0	1911.0	3369.4	6203.7	9553.0	10581.0	10642.4	9879.9	7031.8
72.5°	334.2	369.1	453.7	866.1	1745.0	3937.3	7607.1	9084.6	9227.4	8307.2	5396.8
75°	189.3	207.3	266.5	434.7	757.3	1834.9	4607.9	6449.1	6659.5	5725.6	3246.8
77.5°	125.9	134.3	172.4	281.4	426.2	626.1	1969.2	3360.0	3761.7	3127.3	1405.5
80°	84.6	92.0	118.5	188.3	277.1	268.7	627.1	1244.8	1531.4	1074.5	342.7
82.5°	57.1	58.1	84.6	123.7	175.6	130.1	185.1	387.0	486.5	310.9	130.1
85°	32.8	31.8	62.4	72.0	78.3	53.9	56.1	116.3	152.3	131.1	74.0
87.5°	4.2	6.4	24.3	19.1	10.6	11.6	11.6	20.1	29.6	31.8	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9
2.5°	1837.0	1836.0	1832.8	1829.6	1822.2	1817.9	1820.1	1817.9	1816.9	1817.9	1822.2
5°	1850.7	1847.6	1839.2	1828.5	1813.7	1795.8	1784.1	1767.2	1751.3	1741.8	1743.9
7.5°	1887.7	1884.6	1873.0	1843.4	1795.8	1720.7	1651.9	1591.6	1546.2	1519.8	1520.8
10°	1947.0	1941.7	1923.7	1858.1	1733.4	1569.5	1433.1	1319.9	1245.8	1210.9	1207.8
12.5°	2016.8	2010.4	1978.8	1844.4	1614.9	1358.9	1170.8	1044.9	976.1	945.5	942.3
15°	2099.3	2090.8	2028.4	1778.8	1442.5	1126.3	954.0	859.8	815.4	787.9	788.9
17.5°	2201.9	2187.0	2065.5	1680.5	1255.3	948.6	820.7	749.8	710.7	684.3	682.1
20°	2335.2	2310.8	2095.1	1563.1	1082.9	836.5	730.8	671.6	642.0	618.7	614.5
22.5°	2521.3	2486.3	2131.0	1436.2	961.3	759.3	664.2	620.8	596.4	570.0	565.8
25°	2751.8	2710.5	2175.5	1318.8	877.8	692.7	615.5	579.5	551.0	520.3	517.1
27.5°	3074.4	3000.4	2228.4	1222.5	805.9	635.6	571.1	530.9	498.2	472.7	467.4
30°	3434.0	3312.3	2274.9	1164.4	740.3	582.7	512.9	472.7	442.1	424.0	420.9
32.5°	3774.5	3609.5	2305.5	1139.0	681.1	522.4	449.5	406.1	382.8	377.5	380.7
35°	4096.0	3878.1	2302.4	1114.7	628.2	462.2	387.0	342.7	324.7	327.9	327.9
37.5°	4466.1	4164.7	2280.1	1076.6	584.9	407.1	333.1	294.0	278.2	279.2	283.4
40°	4896.5	4495.8	2266.4	1004.7	537.2	356.4	288.7	257.0	245.4	241.1	240.1
42.5°	5355.5	4816.2	2268.5	923.2	478.1	310.9	258.1	231.6	221.0	217.8	216.8
45°	5816.7	5121.8	2271.7	838.7	415.6	276.0	235.9	213.6	207.3	203.1	203.1
47.5°	6250.2	5382.0	2212.5	747.7	354.2	249.6	217.8	203.1	197.7	192.5	192.5
50°	6654.2	5555.4	2069.7	642.0	305.7	228.5	204.1	193.5	188.3	183.0	183.0
52.5°	6968.4	5583.0	1833.8	533.0	271.8	212.6	195.7	186.1	179.8	174.5	173.4
55°	7108.0	5410.6	1498.6	431.5	245.4	198.8	187.2	177.6	170.3	165.0	163.9
57.5°	7072.0	5047.8	1168.6	346.9	220.0	185.1	176.6	170.3	161.8	153.3	152.3
60°	6895.4	4562.4	881.0	288.7	196.7	170.3	165.0	159.7	148.0	135.4	133.2
62.5°	6589.7	3952.2	628.2	239.0	171.3	153.3	151.2	147.0	130.1	106.8	104.7
65°	6122.3	3210.8	423.0	198.8	147.0	134.3	135.4	127.9	105.8	79.3	77.2
67.5°	5439.1	2347.8	270.7	162.9	122.7	112.1	113.2	109.0	89.9	67.6	64.5
70°	4568.7	1554.6	176.6	123.7	98.4	86.7	93.1	94.1	76.2	55.0	52.9
72.5°	3349.3	918.0	123.7	92.0	72.0	60.3	76.2	78.3	61.3	41.2	39.2
75°	1909.0	435.7	93.1	66.6	44.4	42.3	59.2	59.2	42.3	27.5	25.4
77.5°	801.7	181.9	65.6	43.4	25.4	24.3	40.2	37.0	21.1	12.7	12.7
80°	231.6	81.4	34.8	21.1	10.6	9.5	15.9	11.6	5.3	2.2	2.2
82.5°	90.9	36.0	13.7	8.5	4.2	4.2	2.2	0.0	0.0	0.0	0.0
85°	53.9	14.8	6.4	3.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	3.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)